

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P268570

Luminaire Tested: **GAN-AF-06-LED-U-5WQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-5WQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21466 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

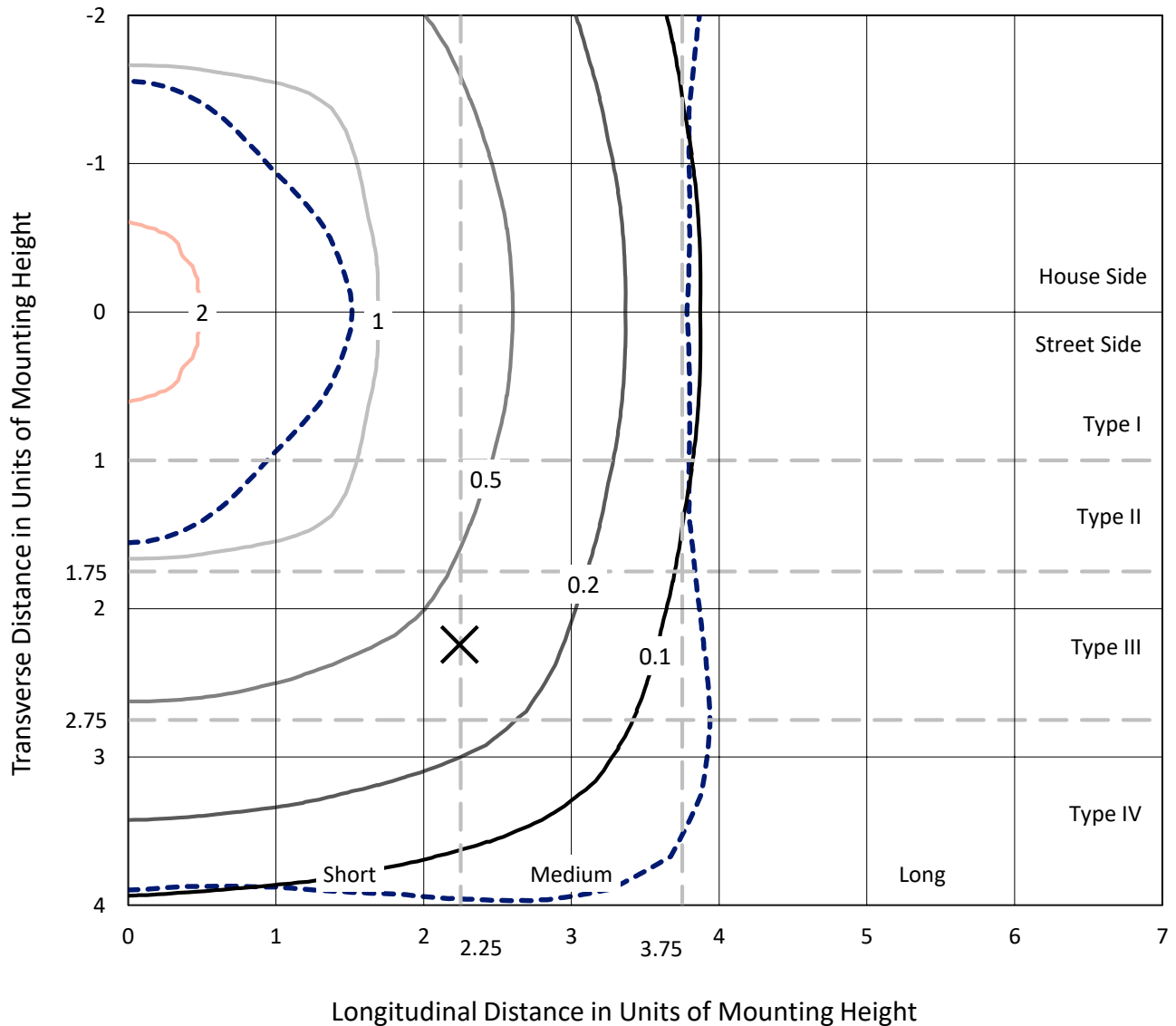


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

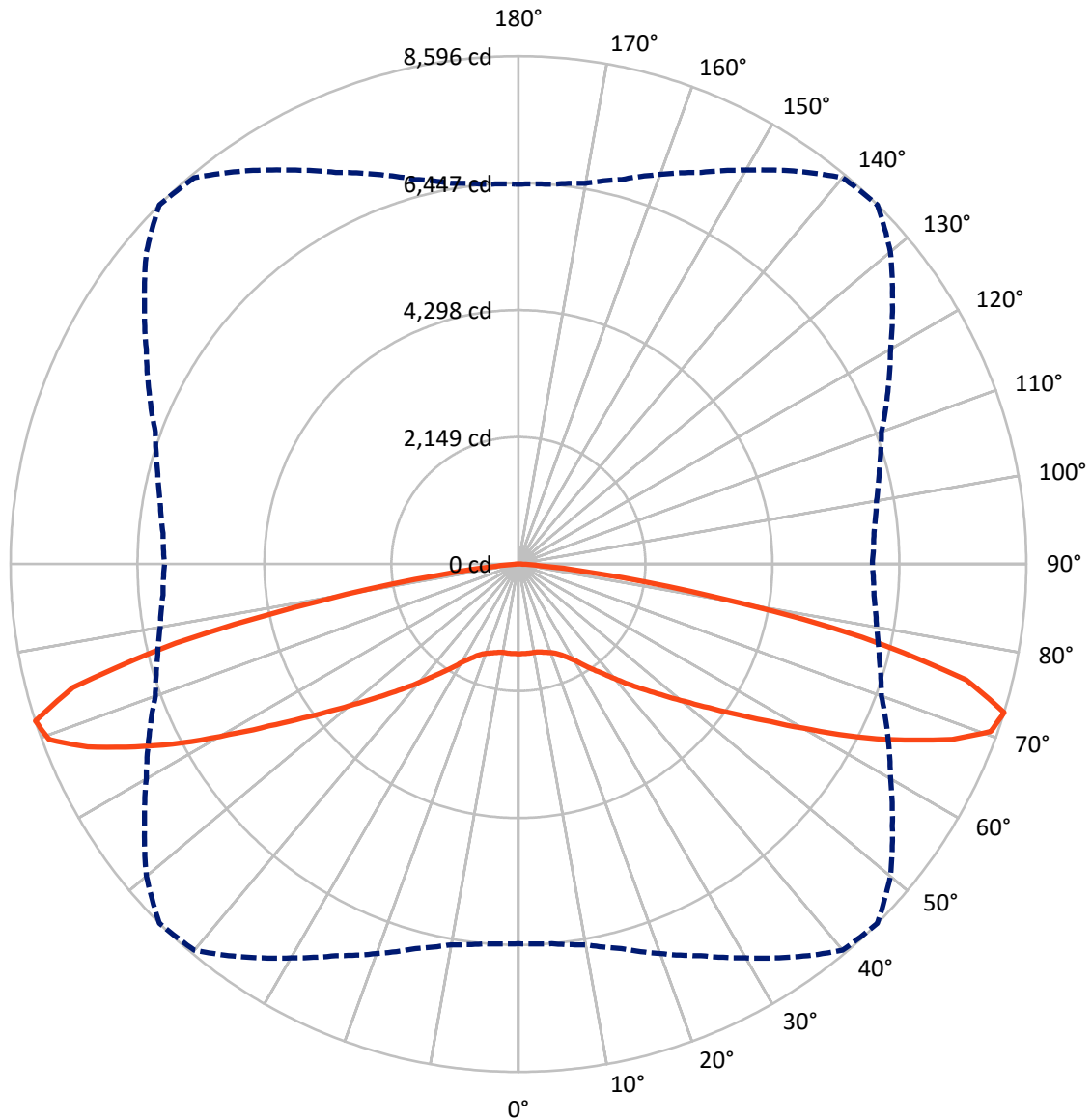


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10733.0	0.0	10733.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10733.0	0.0	10733.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21466.0	0.0	21466.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	0.7
10°-20°	440.9	2.1
20°-30°	805.6	3.8
30°-40°	1389.0	6.5
40°-50°	2374.5	11.1
50°-60°	3848.8	17.9
60°-70°	6385.0	29.7
70°-80°	5623.7	26.2
80°-90°	453.4	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21466.0	100.0
0°-180°	21466.0	100.0



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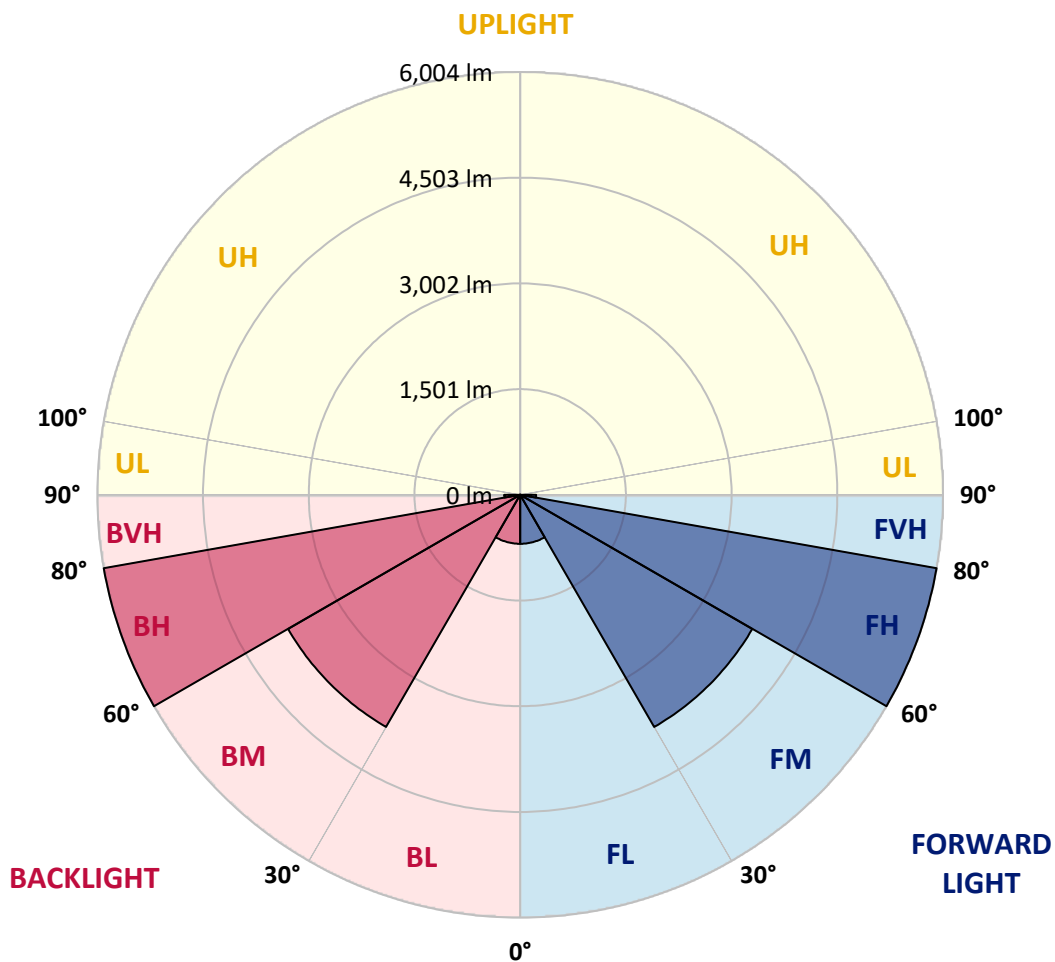
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	695.8	3.2			
FM	(30°-60°)	3806.2	17.7			
FH	(60°-80°)	6004.3	28.0			G3/7500
FVH	(80°-90°)	226.7	1.1			G3/500
BL	(0°-30°)	695.8	3.2	B2/1000		
BM	(30°-60°)	3806.2	17.7	B3/5000		
BH	(60°-80°)	6004.3	28.0	B5		G3/7500
BVH	(80°-90°)	226.7	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1
2.5°	1520.1	1521.1	1522.1	1521.1	1521.1	1520.1	1519.2	1520.1	1519.2	1517.1	1518.1
5°	1525.1	1526.9	1526.9	1525.1	1526.0	1525.1	1523.0	1524.1	1522.1	1519.2	1519.2
7.5°	1530.9	1531.9	1531.9	1530.0	1530.9	1528.9	1526.9	1526.0	1524.1	1520.1	1517.1
10°	1539.9	1540.9	1539.9	1537.9	1537.9	1534.9	1530.0	1527.9	1524.1	1518.1	1515.3
12.5°	1549.7	1550.7	1549.7	1547.7	1546.7	1541.9	1537.9	1534.9	1531.9	1526.9	1522.1
15°	1563.4	1565.3	1563.4	1559.5	1556.6	1552.6	1550.7	1551.6	1552.6	1548.7	1543.7
17.5°	1589.0	1590.0	1587.0	1578.2	1574.3	1570.3	1570.3	1572.4	1575.3	1573.3	1568.4
20°	1636.4	1633.4	1626.4	1615.6	1610.8	1603.8	1602.8	1603.8	1603.8	1602.8	1599.0
22.5°	1695.5	1693.5	1684.5	1670.8	1663.9	1659.9	1654.0	1649.1	1648.1	1645.2	1641.3
25°	1766.2	1765.3	1754.4	1742.6	1737.7	1732.8	1727.9	1721.0	1715.0	1708.1	1704.3
27.5°	1856.8	1852.9	1837.2	1831.3	1824.4	1821.5	1814.4	1806.6	1801.7	1792.8	1787.9
30°	1956.2	1956.2	1943.5	1941.4	1941.4	1934.6	1926.8	1912.9	1904.0	1895.2	1892.3
32.5°	2055.7	2056.7	2044.0	2047.9	2050.8	2055.7	2057.7	2052.7	2046.9	2045.9	2040.1
35°	2199.5	2195.5	2182.7	2185.7	2184.7	2183.7	2183.7	2194.5	2196.4	2198.5	2186.7
37.5°	2377.6	2377.6	2364.9	2364.9	2358.9	2353.0	2345.1	2352.0	2362.9	2365.9	2358.1
40°	2581.5	2588.3	2572.6	2571.6	2573.6	2554.9	2546.1	2556.8	2563.8	2575.5	2566.6
42.5°	2821.7	2816.7	2801.1	2799.1	2788.2	2782.3	2774.4	2783.3	2794.1	2802.1	2805.0
45°	3052.1	3048.0	3030.4	3030.4	3019.6	3014.6	3018.6	3033.3	3038.2	3049.0	3059.9
47.5°	3279.5	3274.6	3262.7	3267.7	3268.7	3277.6	3290.3	3304.1	3317.9	3332.6	3337.7
50°	3511.8	3512.8	3500.1	3511.8	3526.7	3551.2	3585.7	3608.3	3636.9	3655.7	3661.5
52.5°	3723.6	3727.4	3741.3	3768.7	3798.4	3846.6	3905.7	3960.7	4008.1	4039.6	4037.6
55°	3977.5	3983.4	4017.0	4064.2	4112.4	4185.3	4272.9	4370.3	4449.1	4494.4	4465.8
57.5°	4302.4	4315.2	4352.6	4416.6	4488.6	4583.1	4703.2	4849.8	4971.8	5032.9	4986.8
60°	4748.4	4756.3	4801.6	4872.4	4959.2	5076.3	5236.8	5433.7	5606.0	5686.7	5633.5
62.5°	5336.2	5350.9	5387.3	5459.3	5547.8	5680.8	5876.7	6122.8	6337.5	6449.7	6329.5
65°	6038.1	6085.4	6115.9	6188.9	6271.4	6412.3	6617.1	6880.9	7111.3	7185.2	7046.3
67.5°	6733.2	6774.6	6827.7	6911.5	6995.1	7153.7	7343.6	7599.7	7852.7	7919.5	7704.0
70°	7037.5	7061.0	7143.9	7257.9	7418.6	7605.5	7825.0	8112.7	8425.7	8480.8	8207.2
72.5°	6428.0	6451.6	6544.2	6738.1	7017.7	7315.1	7698.0	8120.5	8534.0	8596.1	8219.0
75°	4861.6	4823.3	4960.1	5217.0	5594.1	6008.7	6544.2	7149.7	7747.3	7825.0	7375.2
77.5°	2512.5	2507.6	2611.1	2930.0	3380.0	3851.6	4441.2	5125.5	5710.3	5946.6	5580.4
80°	707.9	715.8	764.9	923.5	1186.4	1526.9	1987.8	2628.7	3107.1	3351.3	3146.6
82.5°	277.7	299.2	318.0	347.6	382.0	432.3	576.9	858.5	1151.8	1376.5	1127.4
85°	99.4	106.3	150.6	178.3	181.2	191.0	217.6	254.0	306.2	365.3	300.3
87.5°	37.4	41.3	48.2	79.8	78.7	71.9	87.7	91.5	68.9	63.1	77.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1
2.5°	1516.2	1517.1	1517.1	1518.1	1519.2	1519.2	1521.1	1521.1
5°	1517.1	1517.1	1515.3	1516.2	1515.3	1515.3	1516.2	1516.2
7.5°	1515.3	1514.3	1512.2	1511.3	1509.3	1509.3	1509.3	1509.3
10°	1512.2	1511.3	1509.3	1508.3	1507.4	1507.4	1507.4	1507.4
12.5°	1520.1	1517.1	1515.3	1514.3	1514.3	1514.3	1514.3	1514.3
15°	1540.9	1533.9	1528.9	1528.9	1530.0	1531.9	1531.9	1533.9
17.5°	1566.5	1558.5	1553.6	1549.7	1551.6	1554.5	1556.6	1558.5
20°	1596.8	1593.0	1586.0	1582.2	1582.2	1586.0	1588.1	1589.0
22.5°	1639.2	1636.4	1633.4	1628.4	1628.4	1630.5	1634.3	1634.3
25°	1702.3	1700.3	1698.3	1694.5	1693.5	1693.5	1695.5	1697.3
27.5°	1781.0	1782.0	1780.0	1779.1	1776.0	1775.1	1778.0	1777.0
30°	1886.4	1891.3	1896.2	1892.3	1887.3	1884.5	1881.4	1877.5
32.5°	2029.1	2023.3	2019.3	2012.5	2003.5	1995.7	1989.7	1982.9
35°	2163.9	2154.1	2150.3	2156.1	2155.2	2150.3	2143.4	2137.4
37.5°	2329.5	2327.5	2329.5	2340.3	2338.3	2343.1	2329.5	2328.4
40°	2538.2	2540.0	2553.9	2566.6	2573.6	2580.6	2572.6	2564.8
42.5°	2780.3	2779.4	2784.2	2802.1	2813.9	2821.7	2805.0	2803.0
45°	3036.4	3029.4	3033.3	3048.0	3059.9	3068.8	3050.0	3050.0
47.5°	3317.9	3306.1	3293.2	3310.1	3316.9	3322.8	3308.1	3303.1
50°	3631.9	3607.4	3579.7	3586.7	3586.7	3584.6	3566.0	3565.1
52.5°	3992.2	3947.1	3896.8	3878.2	3867.3	3855.4	3822.9	3807.1
55°	4406.7	4338.9	4260.1	4211.9	4186.2	4153.8	4099.7	4084.9
57.5°	4891.2	4784.8	4649.0	4589.9	4532.8	4479.7	4419.7	4402.9
60°	5465.2	5308.7	5128.5	5019.2	4957.1	4906.0	4843.9	4841.0
62.5°	6105.2	5857.9	5654.2	5555.7	5510.5	5465.2	5406.1	5413.9
65°	6756.0	6497.9	6306.9	6227.2	6184.9	6147.5	6088.4	6097.2
67.5°	7397.8	7160.5	6950.8	6869.1	6821.9	6774.6	6721.5	6730.3
70°	7858.6	7564.2	7328.0	7146.7	7033.5	6905.5	6822.8	6802.1
72.5°	7726.6	7272.8	6897.6	6538.4	6327.7	6156.4	6040.2	5989.9
75°	6687.0	6066.8	5584.4	5143.2	4895.1	4693.3	4546.6	4455.1
77.5°	4966.0	4268.9	3699.0	3190.9	2789.1	2519.4	2329.5	2206.3
80°	2718.4	2067.4	1511.3	1062.3	780.7	648.8	572.9	536.6
82.5°	846.7	546.3	402.7	347.6	322.9	309.1	286.5	250.1
85°	269.9	236.3	219.5	209.8	199.9	174.4	120.2	109.2
87.5°	104.4	107.3	106.3	100.4	102.3	73.8	59.1	52.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)